

Abstract

A process to convert frames of interlaced video information into two corresponding frames of progressive video information. Pursuant to this process, a portion of the
5 interlaced video information is selected and utilized to interpolate additional video information. Overlapped region partition is applied to that additional information wherein each region is repeatedly compared against a plurality of regions contained in the unselected interlaced video information. By using the motion determination information gained through these comparisons, a plurality of specific pixels within the
10 unselected interlaced video information can be identified for each pixel within the interpolated additional video information and the identified pixel values utilized to calculate a replacement pixel value for each pixel within the interpolated additional video information. The resultant progressive frame is dependent upon the selected portion of interlaced video information and the replacement pixel values, and
15 occasionally is also dependent upon the interpolated video information.